

**Claims**

1. A method for extraction and concentration of hydrophilic compounds dispersed or distributed in hydrophobic liquid matrices comprising the following steps:
  - 5 a) providing a sample of a hydrophobic liquid;
  - b) adding an aqueous capture solution containing at least one extractant to said sample;
  - c) mixing said sample and said capture solution thoroughly;
  - d) allow the aqueous phase to separate from the sample phase;
  - 10 e) measure the compound in the aqueous phase.
2. An aqueous capture solution containing at least one extractant, said extractant in said capture solution improving the yield of a hydrophilic compound extracted from a hydrophobic matrix.  
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3. A capture solution according to claim 2, wherein said extractant is selected out of the group consisting of amphoteric or anionic phospholipids and anionic surfactants.
- 20 4. A capture solution according to claim 3, wherein said extractant is a lecithin.
5. A capture solution according to at least one of the claims 2 to 4 containing more than one extractant.  
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6. A capture solution according to at least one of the claims 2 to 5 containing a non-ionic surfactant in addition to the extractant(s).
7. A capture solution according to at least one of the claims 2 to 6  
30 containing a water-soluble dye in an amount to allow good visibility of the aqueous phase.

8. A reagent kit for extracting a hydrophilic compound from a hydrophobic matrix and detection of said hydrophilic compound comprising a capture solution according to at least one of the claims 2 to 7.

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